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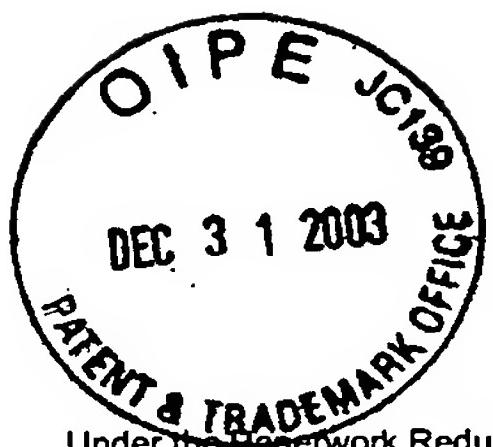
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PTO/SB/21 (08-03)

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TRANSMITTAL FORM

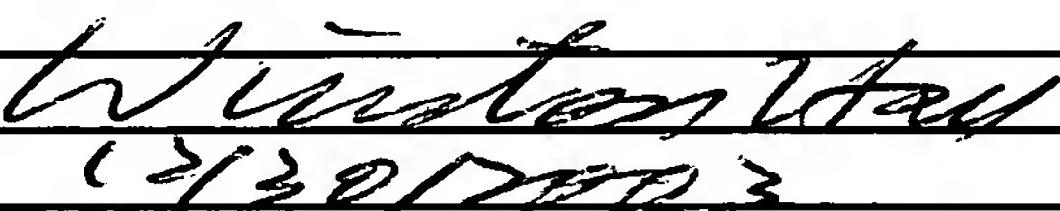
(to be used for all correspondence after initial filing)

TRANSMITTAL FORM <i>(to be used for all correspondence after initial filing)</i>	Application Number	10/707,626	
	Filing Date	12/25/2003	
	First Named Inventor	Chun-Nan Lin	
	Art Unit		
	Examiner Name		
Total Number of Pages in This Submission	3	Attorney Docket Number	LKSP0010USA

ENCLOSURES (Check all that apply)

<input checked="" type="checkbox"/> Fee Transmittal Form <input type="checkbox"/> Fee Attached <input type="checkbox"/> Amendment/Reply <input type="checkbox"/> After Final <input type="checkbox"/> Affidavits/declaration(s) <input type="checkbox"/> Extension of Time Request <input type="checkbox"/> Express Abandonment Request <input type="checkbox"/> Information Disclosure Statement <input checked="" type="checkbox"/> Certified Copy of Priority Document(s) <input type="checkbox"/> Response to Missing Parts/ Incomplete Application <input type="checkbox"/> Response to Missing Parts under 37 CFR 1.52 or 1.53	<input type="checkbox"/> Drawing(s) <input type="checkbox"/> Licensing-related Papers <input type="checkbox"/> Petition <input type="checkbox"/> Petition to Convert to a Provisional Application <input type="checkbox"/> Power of Attorney, Revocation <input type="checkbox"/> Change of Correspondence Address <input type="checkbox"/> Terminal Disclaimer <input type="checkbox"/> Request for Refund <input type="checkbox"/> CD, Number of CD(s) _____ <input type="button" value="Remarks"/>	<input type="checkbox"/> After Allowance communication to Technology Center (TC) <input type="checkbox"/> Appeal Communication to Board of Appeals and Interferences <input type="checkbox"/> Appeal Communication to TC (Appeal Notice, Brief, Reply Brief) <input type="checkbox"/> Proprietary Information <input type="checkbox"/> Status Letter <input type="checkbox"/> Other Enclosure(s) (please identify below):
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SIGNATURE OF APPLICANT, ATTORNEY, OR AGENT

Firm or Individual name	Winston Hsu, Reg. No.: 41,526
Signature	
Date	12/25/2003

CERTIFICATE OF TRANSMISSION/MAILING

I hereby certify that this correspondence is being facsimile transmitted to the USPTO or deposited with the United States Postal Service with sufficient postage as first class mail in an envelope addressed to: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450 on the date shown below.

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This collection of information is required by 37 CFR 1.5. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to 12 minutes to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.

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PTO/SB/17 (10-03)

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FEE TRANSMITTAL for FY 2004

Effective 10/01/2003. Patent fees are subject to annual revision.

 Applicant claims small entity status. See 37 CFR 1.27

TOTAL AMOUNT OF PAYMENT (\$ 0.00)

Complete if Known

Application Number	10/707,626
Filing Date	12/25/2003
First Named Inventor	Chun-Nan Lin
Examiner Name	
Art Unit	
Attorney Docket No.	LKSP0010USA

METHOD OF PAYMENT (check all that apply)

 Check Credit card Money Order Other None
 Deposit Account:

Deposit Account Number 50-0801
 Deposit Account Name North America International Patent Office

The Director is authorized to: (check all that apply)

- Charge fee(s) indicated below Credit any overpayments
 Charge any additional fee(s) or any underpayment of fee(s)
 Charge fee(s) indicated below, except for the filing fee to the above-identified deposit account.

FEE CALCULATION

1. BASIC FILING FEE

Large Entity Fee Code (\$)	Small Entity Fee Code (\$)	Fee Description	Fee Paid
1001 770	2001 385	Utility filing fee	
1002 340	2002 170	Design filing fee	
1003 530	2003 265	Plant filing fee	
1004 770	2004 385	Reissue filing fee	
1005 160	2005 80	Provisional filing fee	
SUBTOTAL (1)		(\$ 0.00)	

2. EXTRA CLAIM FEES FOR UTILITY AND REISSUE

Total Claims	Independent Claims	Multiple Dependent	Extra Claims	Fee from below	Fee Paid
			-20** =	X	=
			- 3** =	X	=
					=

Large Entity Fee Code (\$)	Small Entity Fee Code (\$)	Fee Description
1202 18	2202 9	Claims in excess of 20
1201 86	2201 43	Independent claims in excess of 3
1203 290	2203 145	Multiple dependent claim, if not paid
1204 86	2204 43	** Reissue independent claims over original patent
1205 18	2205 9	** Reissue claims in excess of 20 and over original patent
SUBTOTAL (2)		(\$ 0.00)

**or number previously paid, if greater; For Reissues, see above

3. ADDITIONAL FEES

Large Entity	Small Entity	Fee Description	Fee Paid
1051 130	2051 65	Surcharge - late filing fee or oath	
1052 50	2052 25	Surcharge - late provisional filing fee or cover sheet	
1053 130	1053 130	Non-English specification	
1812 2,520	1812 2,520	For filing a request for ex parte reexamination	
1804 920*	1804 920*	Requesting publication of SIR prior to Examiner action	
1805 1,840*	1805 1,840*	Requesting publication of SIR after Examiner action	
1251 110	2251 55	Extension for reply within first month	0.00
1252 420	2252 210	Extension for reply within second month	
1253 950	2253 475	Extension for reply within third month	
1254 1,480	2254 740	Extension for reply within fourth month	
1255 2,010	2255 1,005	Extension for reply within fifth month	
1401 330	2401 165	Notice of Appeal	
1402 330	2402 165	Filing a brief in support of an appeal	
1403 290	2403 145	Request for oral hearing	
1451 1,510	1451 1,510	Petition to institute a public use proceeding	
1452 110	2452 55	Petition to revive - unavoidable	
1453 1,330	2453 665	Petition to revive - unintentional	
1501 1,330	2501 665	Utility issue fee (or reissue)	
1502 480	2502 240	Design issue fee	
1503 640	2503 320	Plant issue fee	
1460 130	1460 130	Petitions to the Commissioner	
1807 50	1807 50	Processing fee under 37 CFR 1.17(q)	
1806 180	1806 180	Submission of Information Disclosure Stmt	
8021 40	8021 40	Recording each patent assignment per property (times number of properties)	
1809 770	2809 385	Filing a submission after final rejection (37 CFR 1.129(a))	
1810 770	2810 385	For each additional invention to be examined (37 CFR 1.129(b))	
1801 770	2801 385	Request for Continued Examination (RCE)	
1802 900	1802 900	Request for expedited examination of a design application	
Other fee (specify) _____			

*Reduced by Basic Filing Fee Paid

SUBTOTAL (3) (\$ 0.00)

SUBMITTED BY

(Complete if applicable)

Name (Print/Type)	Winston Hsu	Registration No. (Attorney/Agent)	41,526	Telephone	886289237350
Signature	<i>Winston Hsu</i>			Date	<i>12/23/03</i>

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PTO/SB/02B (11-00)

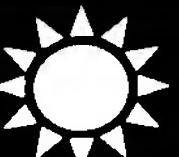
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DECLARATION -- Supplemental Priority Data Sheet

Additional foreign applications:

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中華民國經濟部智慧財產局

INTELLECTUAL PROPERTY OFFICE
MINISTRY OF ECONOMIC AFFAIRS
REPUBLIC OF CHINA

茲證明所附文件，係本局存檔中原申請案的副本，正確無訛，
其申請資料如下：

This is to certify that annexed is a true copy from the records of this office of the application as originally filed which is identified hereunder:

申請日：西元 2003 年 07 月 30 日
Application Date

申請案號：092120907
Application No.

申請人：力晶半導體股份有限公司
Applicant(s)

局長
Director General

蔡練生

發文日期：西元 2003 年 10 月 13 日
Issue Date

發文字號：09221028100
Serial No.

申請日期：	IPC分類
申請案號：	

(以上各欄由本局填註)

發明專利說明書

一、 發明名稱	中文	控片管理系統
	英文	MANAGEMENT SYSTEM OF MONITOR WAFERS
二、 發明人 (共5人)	姓名 (中文)	1. 林俊男 2. 劉鳴宇 3. 楊嘉萍
	姓名 (英文)	1. Lin, Chun-Nan 2. Liu, Ming-Yu 3. Yang, Chia-Ping
	國籍 (中英文)	1. 中華民國 TW 2. 中華民國 TW 3. 中華民國 TW
	住居所 (中文)	1. 新竹市大學路六十八號二樓之三 2. 彰化縣社頭鄉松雅路八八七號 3. 台北市中正路七0七巷十五之一號四樓
	住居所 (英文)	1. 2F-3, No. 68, Ta-Hsueh Rd., Hsin-Chu City, Taiwan, R.O.C. 2. No. 887, Sung-Ya Rd., She-Tou Hsiang, Chang-Hua Hsien, Taiwan, R.O.C.
	名稱或 姓名 (中文)	1. 力晶半導體股份有限公司 Taiwan-R.O.C.
三、 申請人 (共1人)	名稱或 姓名 (英文)	1. Powerchip Semiconductor Corp.
	國籍 (中英文)	1. 中華民國 TW
	住居所 (營業所) (中文)	1. 新竹市科學園區力行一路12號 (本地址與前向貴局申請者相同)
	住居所 (營業所) (英文)	1. No. 12, Li-Hsin Rd. I, Science-based Industrial Park, Hsin-Chu City, Taiwan, R.O.C.
	代表人 (中文)	1. 黃崇仁
	代表人 (英文)	1. Huang, Chung-Jeng



申請日期：	IPC分類
申請案號：	

(以上各欄由本局填註)

發明專利說明書

一 發明名稱	中文	
	英文	
二 發明人 (共5人)	姓名 (中文)	4. 楊殊穎 5. 柯焯景
	姓名 (英文)	4. Yang, Shu-Yin 5. Ko, Cho-Ching
	國籍 (中英文)	4. 中華民國 TW 5. 中華民國 TW
	住居所 (中 文)	4. 新竹縣芎林鄉文山路八一九巷九號 5. 新竹市西大路七三六巷二十三號
	住居所 (英 文)	4. No. 9, Lane 819, Wen-Shan Rd., Chiung-Lin Hsiang, Hsin-Chu Hsien, Taiwan, R.O.C. 5. No. 23, Lane 736, Hsi-Ta Rd., Hsin-Chu City, Taiwan, R.O.C.
三 申請人 (共1人)	名稱或 姓名 (中文)	
	名稱或 姓名 (英文)	
	國籍 (中英文)	
	住居所 (營業所) (中 文)	
	住居所 (營業所) (英 文)	
代表人 (中文)		
代表人 (英文)		



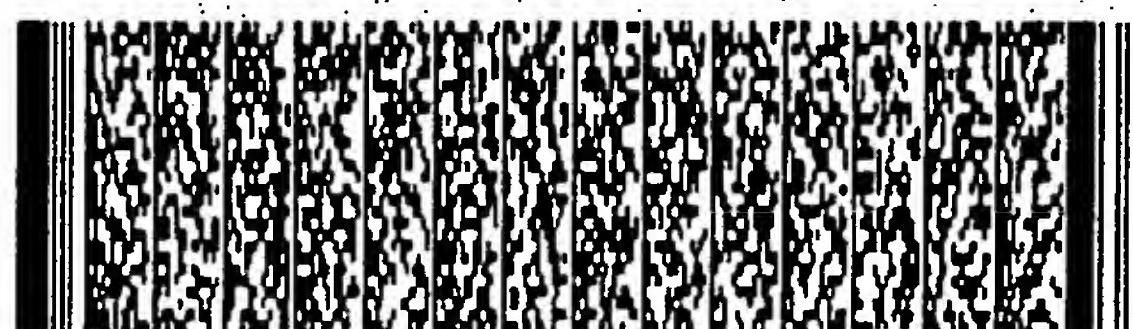
存放模各據片以控全訊使內規判來之編根一警片中心片況用內片來於一控庫有一用組料之，否發示存一控狀，庫控用低出各片含一其號料控據警庫庫，是則顯控包以更片各示存存用一控管理，編資各根一片全組片新來，控安模片控更用量斷於示用種管片，結組庫果量料量一控各步判量控算庫片控片資料根處組片計之控一控明資料來一模控況組若及及本控，之規，用量量，況之組片片料使存存息心

伍、(一)、本案代表圖為：第一圖

(二)、本案代表圖之元件代表符號簡單說明：

六、英文發明摘要 (發明名稱：MANAGEMENT SYSTEM OF MONITOR WAFERS)

A management system for managing information of monitor wafers stored in a storage center includes an operation rule module for determining the next manufacturing process for each of the monitor wafers according to the wafer numbers and the wafer conditions of the monitor wafers, an information update module for updating the information of the monitor wafers in the database

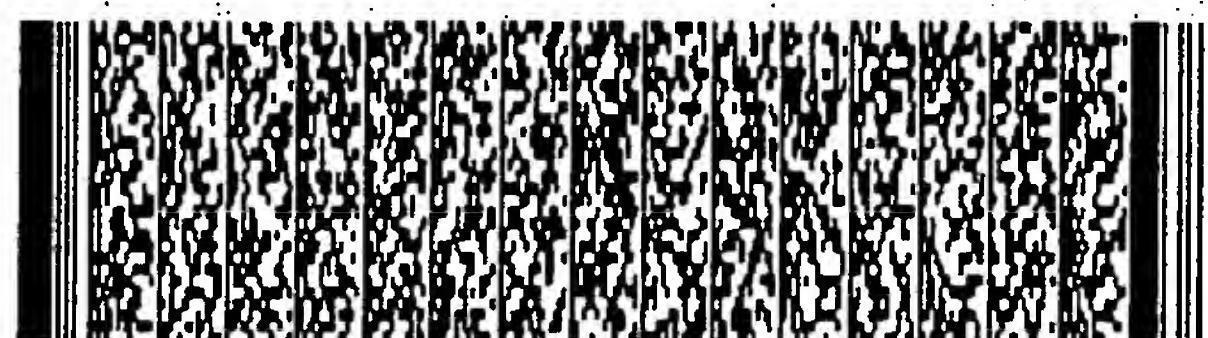


四、中文發明摘要 (發明名稱：控片管理系統)

10	控片管理系統	20	資料匯流排
30	電腦系統	40	資料庫
50	用戶端	101	控片規則模組
102	控片資料更新模組	103	控片存量模組
104	警示模組	105	控片資料顯示模組

六、英文發明摘要 (發明名稱：MANAGEMENT SYSTEM OF MONITOR WAFERS)

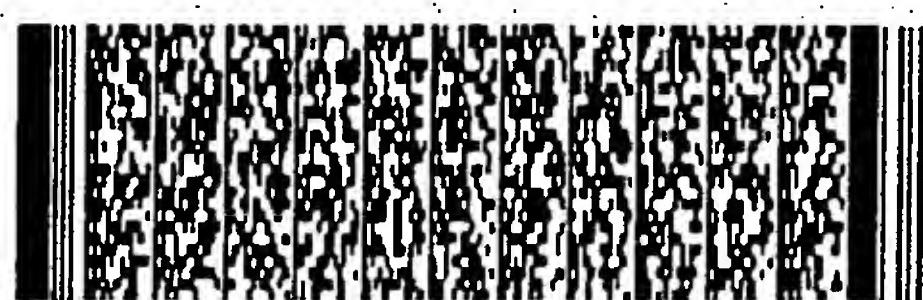
according to the results made by the operation rule module, an inventory module for computing an inventory quantity of the monitor wafers according to the wafer numbers and the wafer conditions of the monitor wafers, a warning module for checking whether the inventory quantity of the monitor wafers is less than the quantity of the safety stock or not and sending a



四、中文發明摘要 (發明名稱：控片管理系統)

六、英文發明摘要 (發明名稱：MANAGEMENT SYSTEM OF MONITOR WAFERS)

warning message when the inventory quantity of the monitor wafers is less than the quantity of the safety stock, and a display module for showing the wafer conditions and the inventory quantity of the monitor wafers.



一、本案已向

國家(地區)申請專利

申請日期

案號

主張專利法第二十四條第一項優先權

無

二、主張專利法第二十五條之一第一項優先權:

申請案號:

無

日期:

三、主張本案係符合專利法第二十條第一項第一款但書或第二款但書規定之期間

日期:

四、有關微生物已寄存於國外:

寄存國家:

無

寄存機構:

寄存日期:

寄存號碼:

有關微生物已寄存於國內(本局所指定之寄存機構):

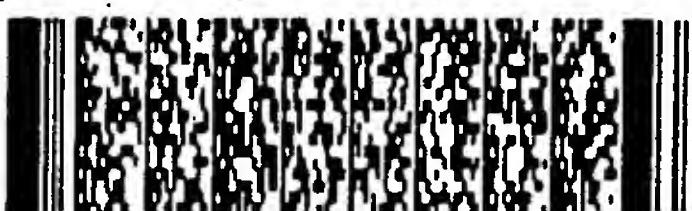
寄存機構:

無

寄存日期:

寄存號碼:

熟習該項技術者易於獲得,不須寄存。



五、發明說明 (1)

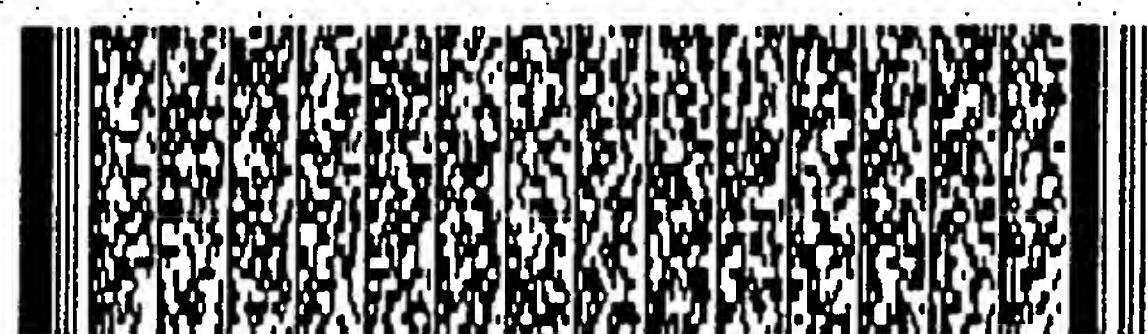
發明所屬之技術領域

本發明係提供一種控片管理系統，尤自動到達庫存等目的。該系統可以庫片存自供。

先前技術

會製至決製能製使過，的代種中體送果一才體所經料料替一程導被結此程導程須資材及某製半將的覆製半製必料代以給體控片測重理的一料材替量配導監控量或處同某材代之求調半來，據程收不將代替片需料在片後根製回，在替種控的材前控之再個的外但，一種片代目前的程，一串此，前每一控替質所體量至一中替用建給一一品插導的送過之此使如配每某製中種品應須製以製，可依，作安半質被經程彼程例調據將製的片某程是必體可一程有再理路晶成製片片導係另製含後管體製當位造的於控配處料，然行積的。單製過用的調預資量量進控制一批質制批用使用片的料數數量了每的質此。新所的連代類料片為在品定程重程用一替種材料片。

習知之控片管理方式是將控片存放於一控片庫存中心，



五、發明說明 (2)

控收庫量存取回片求庫領一控需全。並於。片安作中心中程控於運集中製足少之存被理滿量線庫片處夠存產片控收能片生至後行是現影控之回否控響報試進量發免

片少收完，獲庫控包控片預效控將回剛來以之之，得控地有之即之作一可心知訊使收理況有量回工此便中習資地回合情算片上採。數庫由控連掌難使費現存送購如量存於片帶控以用。估控線於心之片，之將易而之浪效現，能中片控說中此容進片本有發後可存控成話用因不，控成法心作卻庫收造句使，時間據成無中工片片回片換上等理時依造並存購控控些控。線量處理法易式庫採之入這新題控數收處無容方片關理送入之問掌用回收亦，理控相處便加購等效使片回且理管當行收時需採擔有及控的而處片，進回半僅得負法以行理，收控言並成一能使本無況進合量回知例存已行量進及式用心估庫控，全或是庫足擔理片存質片進，安片或全滿負管控庫品控地

發明內容

五、發明說明（3）

因此，本發明之目的即在提供一種控片管理系統，可以
提供自動演算合理之控片庫存量並達到自動監控控片庫
存等目的。

本發明之次一目的係提供一種控片管理系統，可以追蹤控片使用紀錄，以有效掌控控片使用狀況。

本發明之又一目的係提供一種控片管理系統，可以定義控片之使用流程，以提高控片使用率，降低營運成本。

在本發明之最佳實施例中，該控片管理系統係用來管理
一控片庫存中心內所存放之控片資料，且其包含有一控

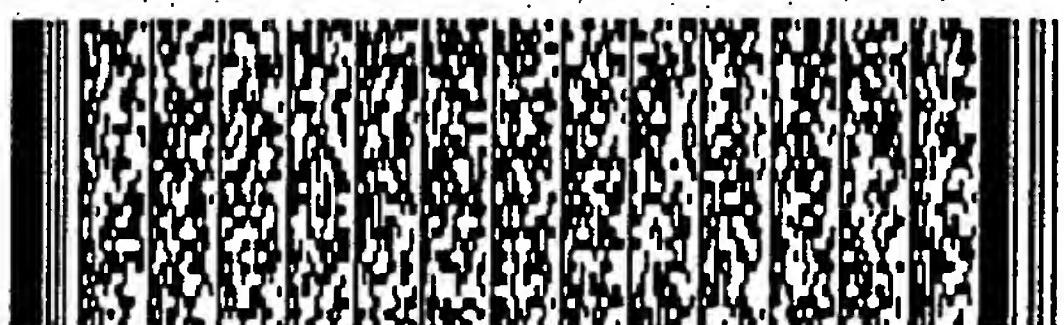
片規則模組，用來根據各控制片之控制步驟，一控片編號及使用狀況，用判斷各控制片之下一處理步驟。

之控片資料，一控片存量模組，用來根據各控片之控片編號以及使用狀況計算控片庫存量，一警示模組，用

於一出發後，若發現庫存量低於安全庫存量，則應立即採取措施，以保證庫存量恢復到安全庫存量。

之使用狀況以及控片庫存量。

由於本發明之控制片管理系統對於各控制片員杆均予以使用狀況
管理，因此可以利用控制片規則模組依據各控制片之使用狀況



五、發明說明 (4)

實施方式

如圖一所示，控片管理系統 10包含有一控片規則模組 101，用來根據各控片之下一處理步驟；一控片資料更新模組 102，用來根據控片規則模組 101決定之處理步驟，同步更新資料庫 40內

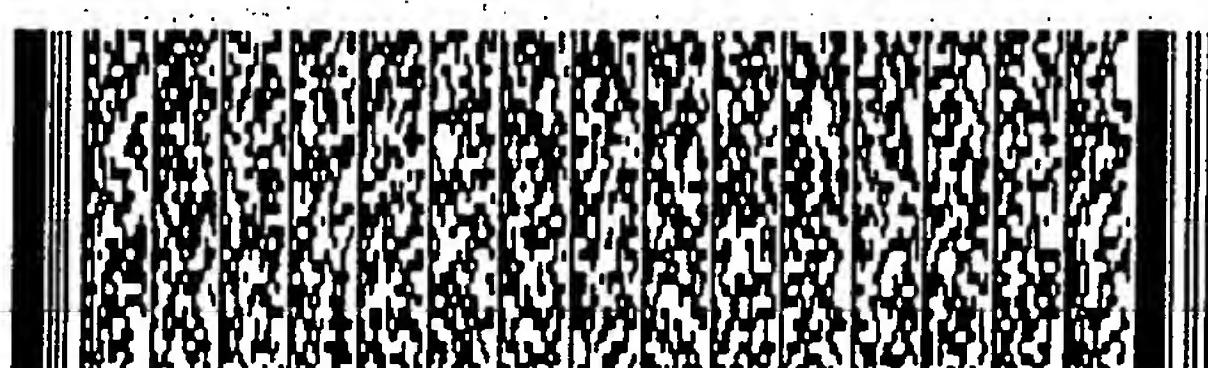
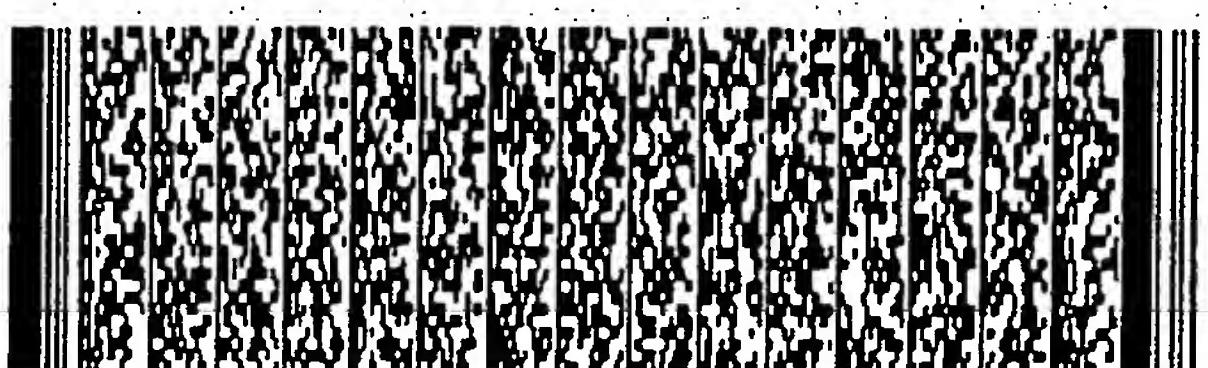


五、發明說明 (5)

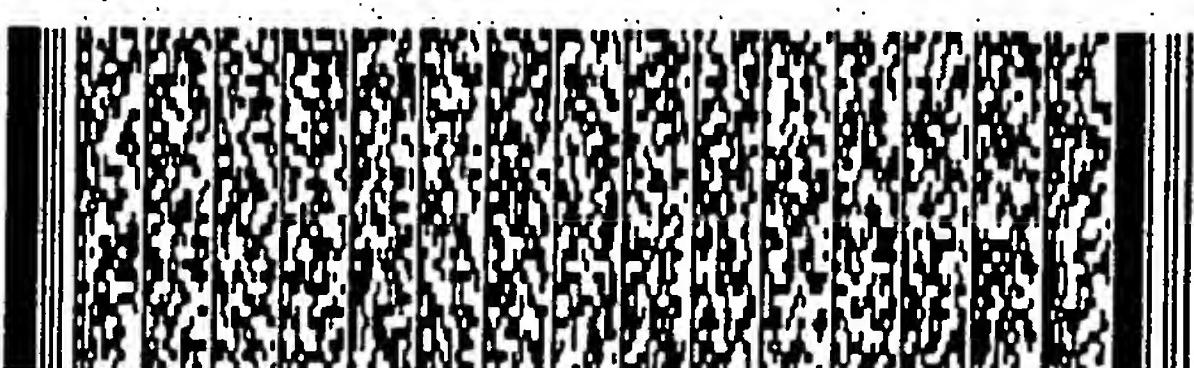
之控片資料；一控片存量模組 103，用來根據各控片之控
編號以及使用狀況計算控片庫存量；一警示模組 104，
用來顯示各控片之使用狀況以及控片庫存量。



五、發明說明 (6)



五、發明說明 (7)



五、發明說明 (8)

測流程，進行步驟 206之轉用流程以將控片庫存於控片庫存中心 10中提供其他製程使用，或是送至重製廠商進行步驟 207之重製流程。

接著在步驟 208中，控片資料更新模組 102依據控片規則之更新庫 40 中之控片資料庫 40 根據由一步驟若新資料。隨後進行步驟 209，控片處理步驟來同步更新庫存量模組 103根據由一步驟 210，由於行量；由訊息伺控片採購工作器作。隨後進行步驟 209計算控片庫存量，並且進行步驟 210，由訊息伺控片採購工作器作。隨後進行步驟 209計算控片庫存量，並且進行步驟 210，由訊息伺控片採購工作器作。

控一在，管與即生
提供進而統片存得片
來並且。理用之料及
系統晶儲取得晶
片管理維庫似例片晶存
量管理與之類，晶片量
片存片供料等這片庫
片存片供料等這些庫
利用之理以品記錄用晶
控制提資料可產程步掌
關係資料管亦理製一於
利施等料例有晶可以以
實錄片實理個統結
佳紀錄片實理個統結
之歷些其的提此分訊。
明用這之同來因片資
發使理明相統，晶等
本之處發用系護之率
在片步本利理，時產



五、發明說明 (9)

相較於習知之控片管理方式，本發明提供一控片管理系統來自動處理控片資料，因此本發明至少包含下列優點：(1)自動監控庫存以及自動演算合理庫存量；(2)系統完整定義控片流程；(3)完全掌控實體控片流程；(4)自動檢查控片於資料庫中所記錄位置與實體位置是否相符；(5)有效掌控全公司控片所有量，包含庫存量與線上使用量；(6)完整蒐集控片相關資訊；(7)有效掌控控片流向；(8)提升控片有效使用率，降低營運成本；(9)提升控片品質管控能力。

以上所述僅為本發明之較佳實施例，凡依本發明申請專利範圍所做之均等變化與修飾，皆應屬本發明專利之涵蓋範圍。



圖式簡單說明

圖式之簡單說明

圖一為本發明之控片管理系統之方塊示意圖。
圖二為本發明之控片管理系統處理回收控片之方法流程圖。

圖式之符號說明

10 控片管理系統
30 電腦系統
00 用戶端
102 控片資料更新模組
104 警示模組

20 資料匯流排
40 資料庫
101 控片規則模組
103 控片存量模組
105 控片資料顯示模組

201~212 回收控片處理步驟

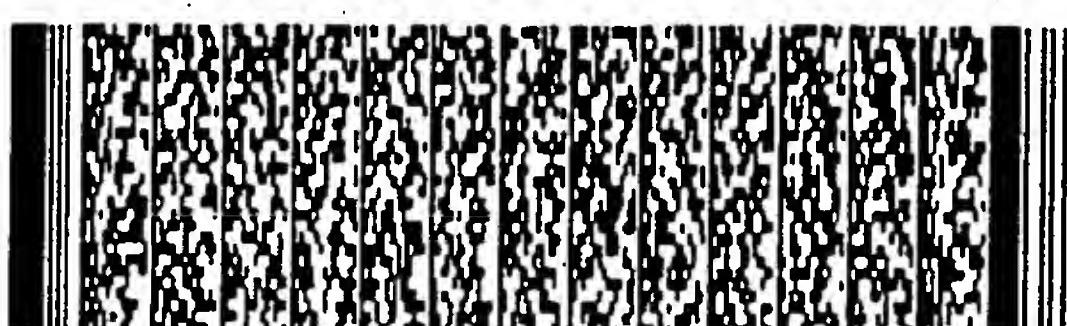
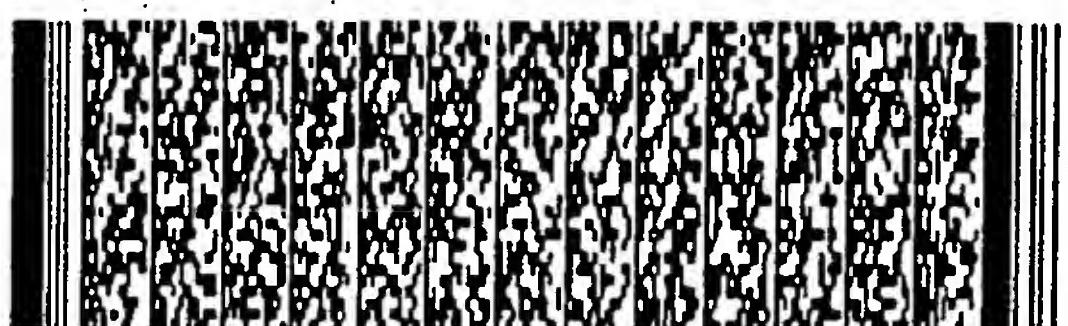


六、申請專利範圍

1. 一種控片管理系統，其係用來管理一控片庫存中心內所存放之複數片控片，各該控片均係包含一控片編號且其資料均係儲存於一資料庫中，該控片管理系統包含有：

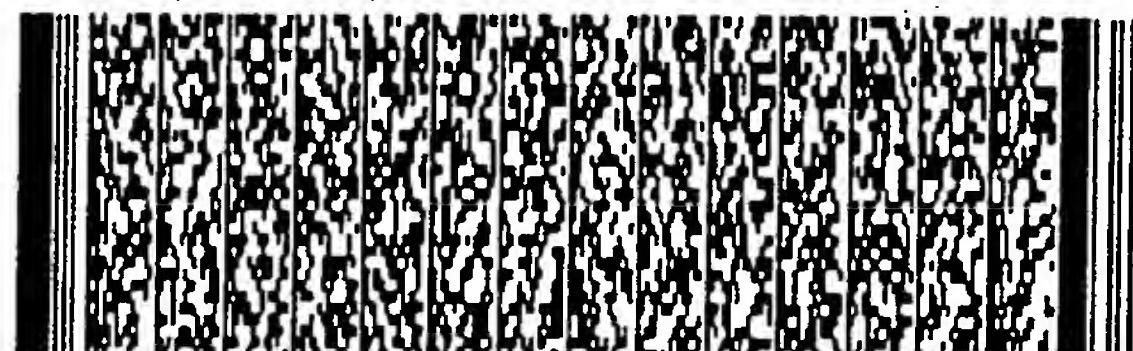
2. 如申請專利範圍第1項之控片管理系統，其係連片資料匯流排，以使該控片管理來用於該資料庫中。一經由該資料匯流排傳遞至一儲存至該資料庫統，並將該等控片資料。

3. 如申請專利範圍第2項之控片管理系統，其中該電腦該資料系統提供至少一用戶端與其連線，該用端戶係利用該程式存至該資料系統建立每一片控片之使用流程並儲存。

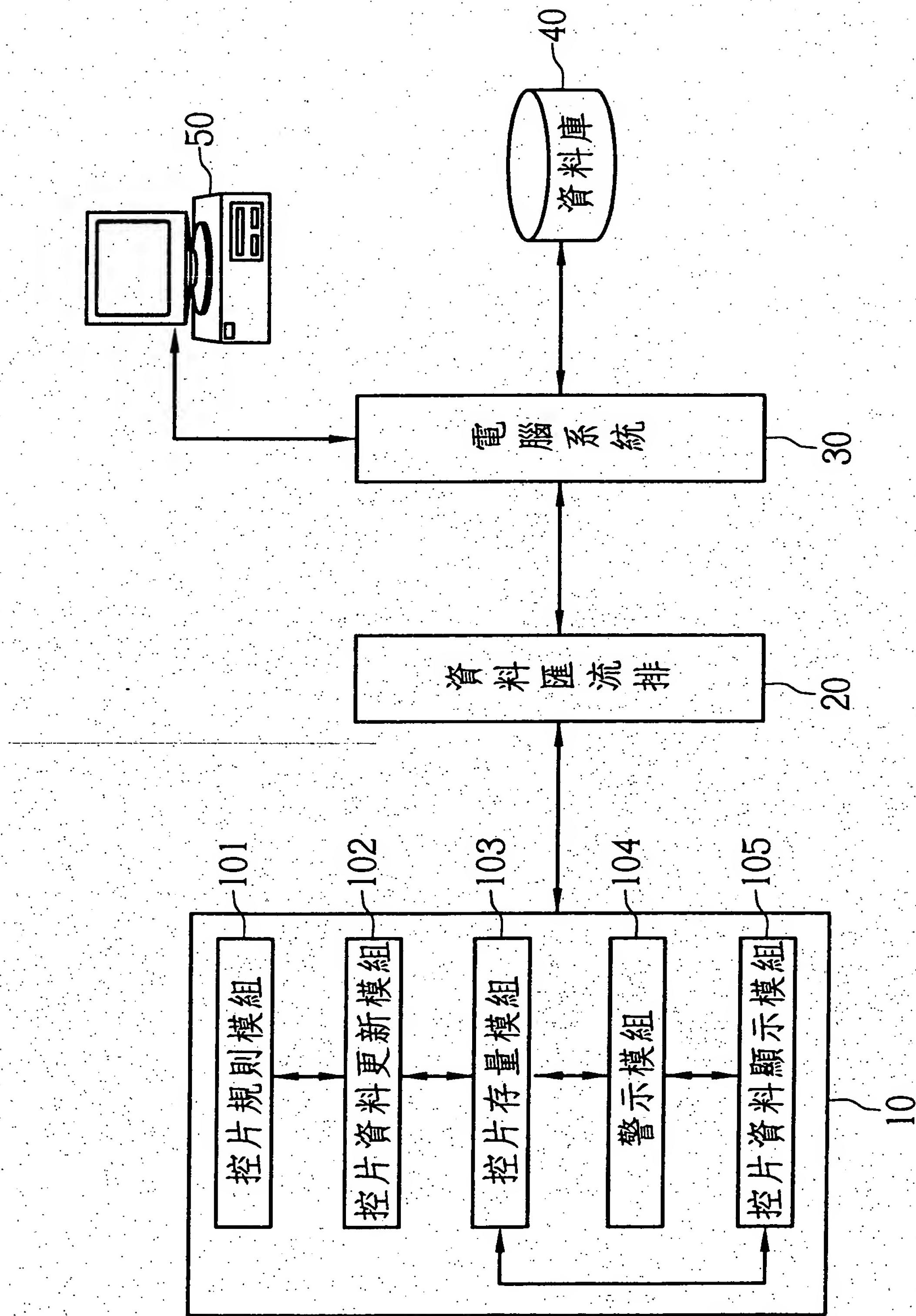


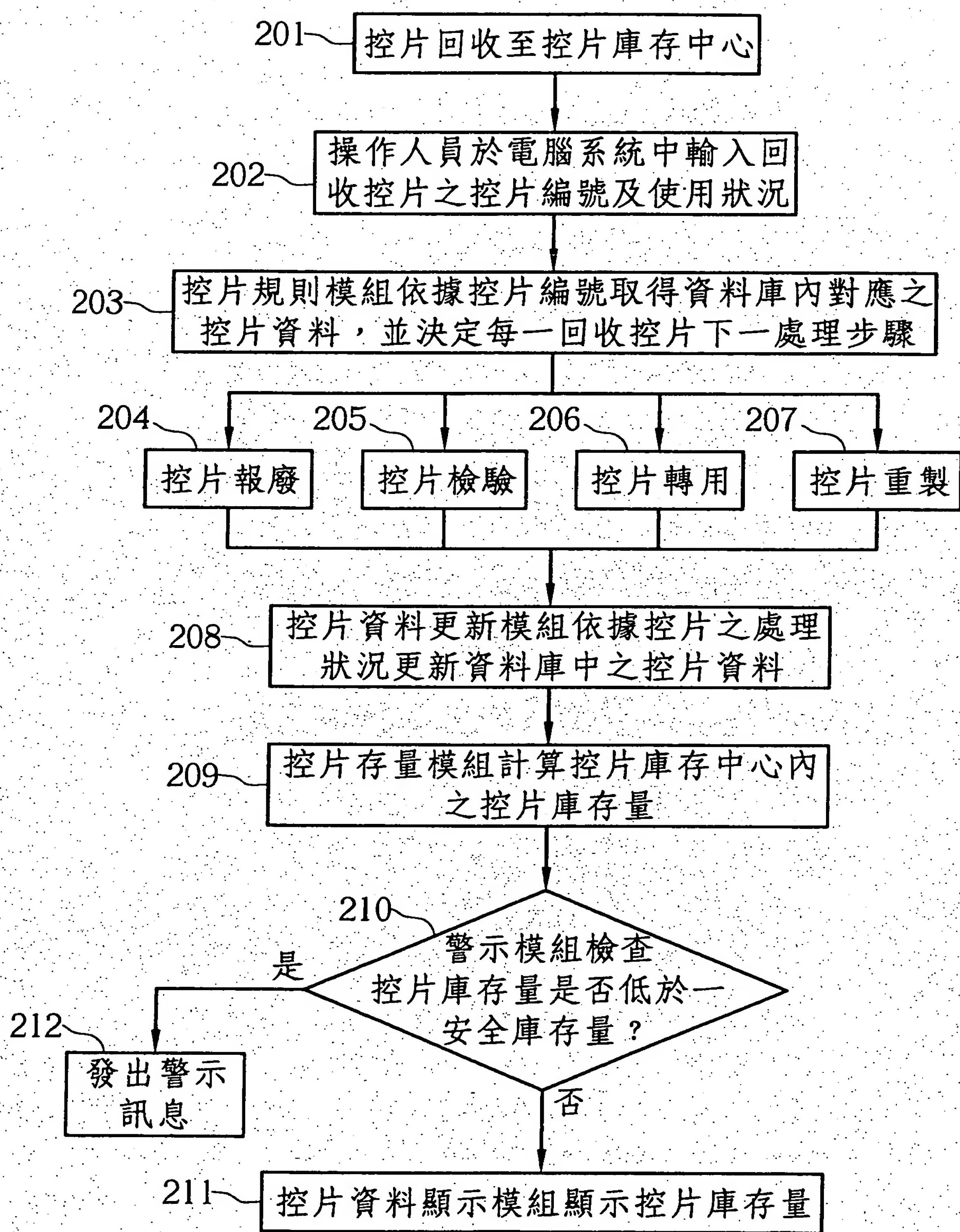
六、申請專利範圍

庫，以使各該控片可以依據其使用流程定義進行使用，或利於追蹤各該控片之使用狀況是否符合其使用流程定義。



圖一

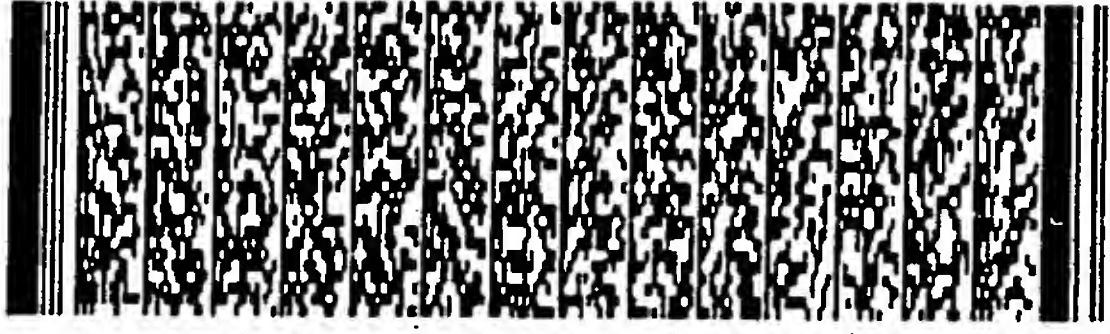




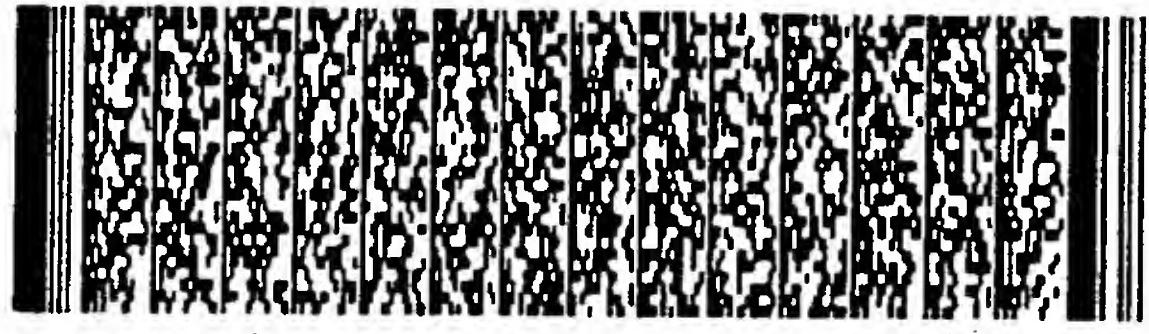
圖二

(4.5版)申請案件名稱:控片管理系統

第 1/18 頁



第 1/18 頁



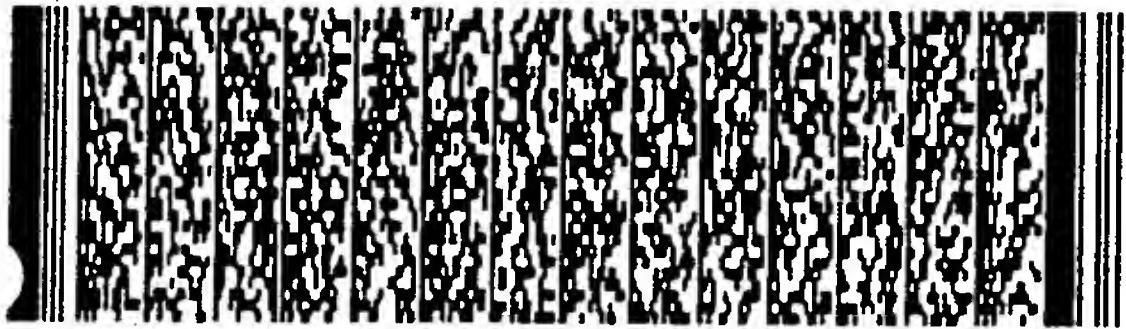
第 2/18 頁



第 3/18 頁



第 3/18 頁



第 4/18 頁



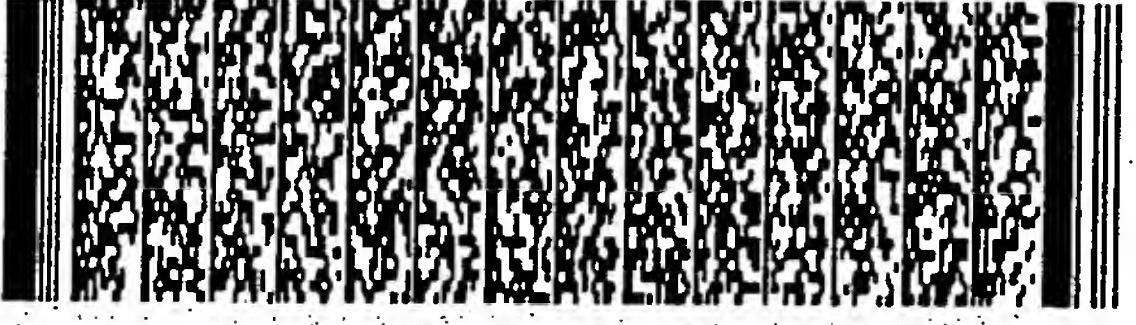
第 5/18 頁



第 6/18 頁



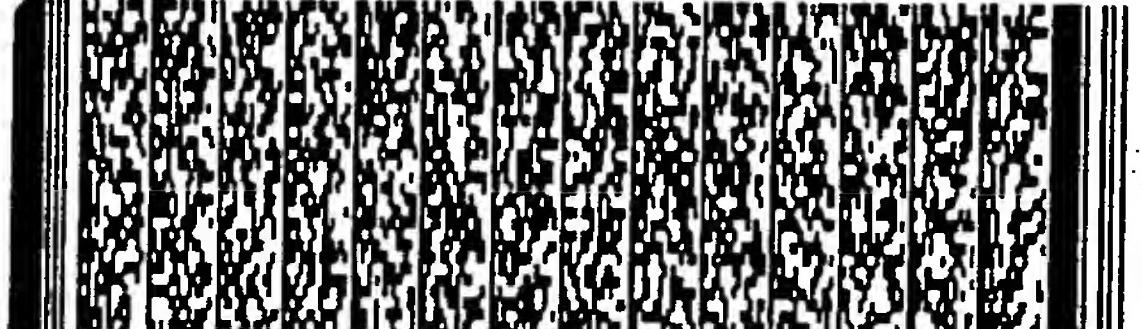
第 7/18 頁



第 7/18 頁



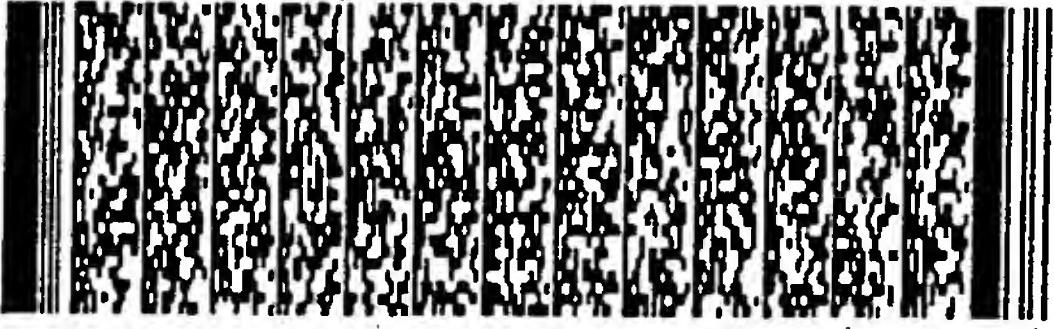
第 8/18 頁



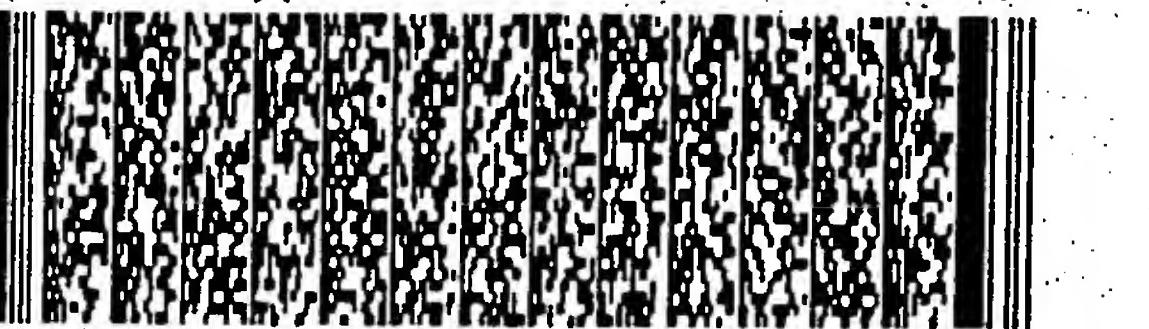
第 8/18 頁



第 9/18 頁



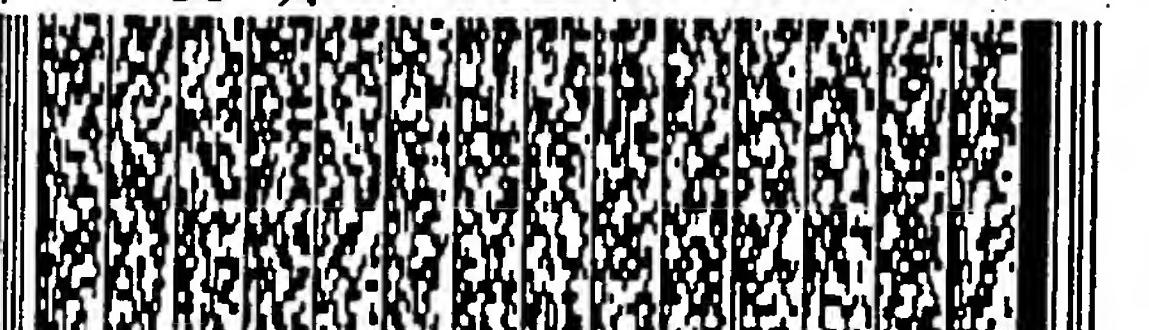
第 9/18 頁



第 10/18 頁

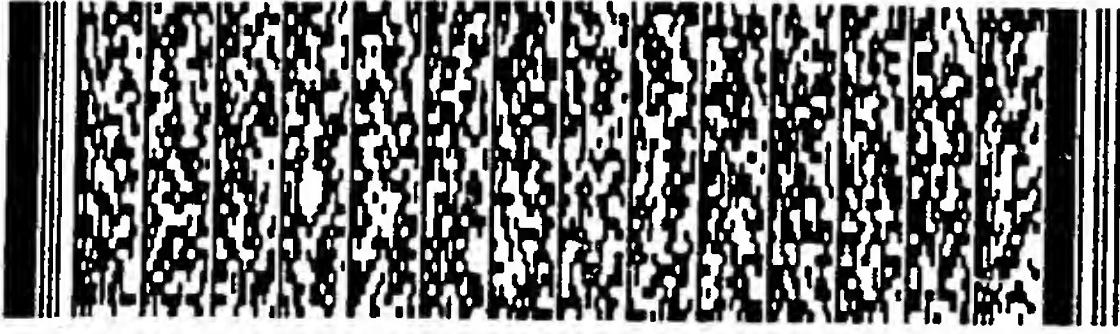


第 10/18 頁

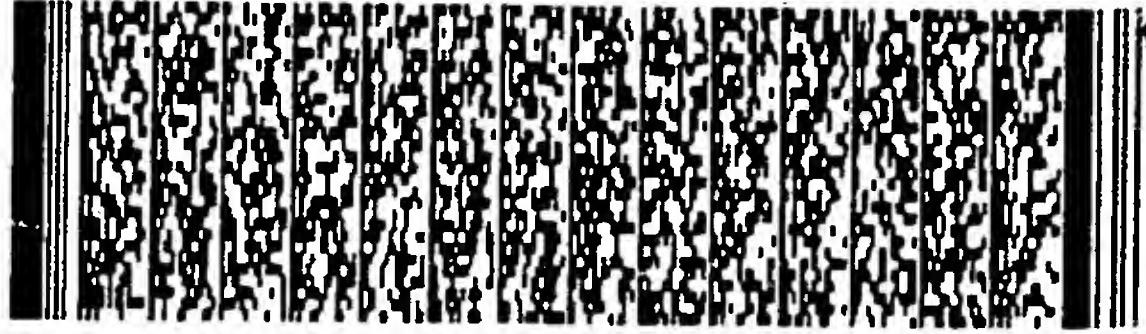


(4.5版)申請案件名稱:控片管理系統

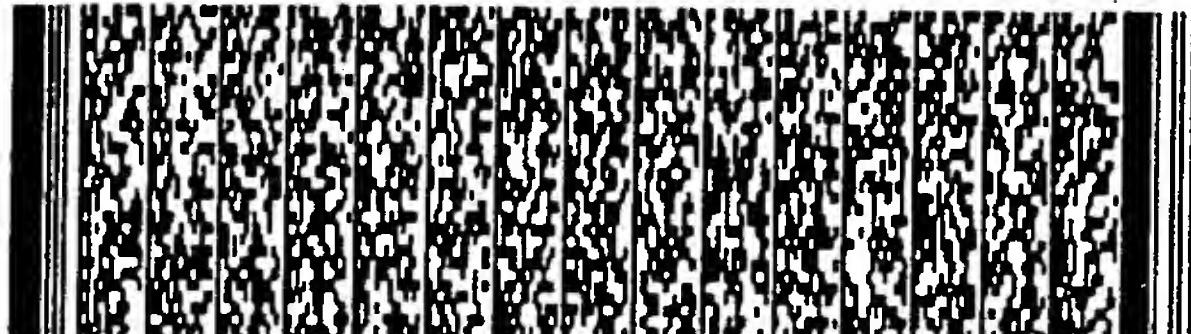
第 11/18 頁



第 11/18 頁



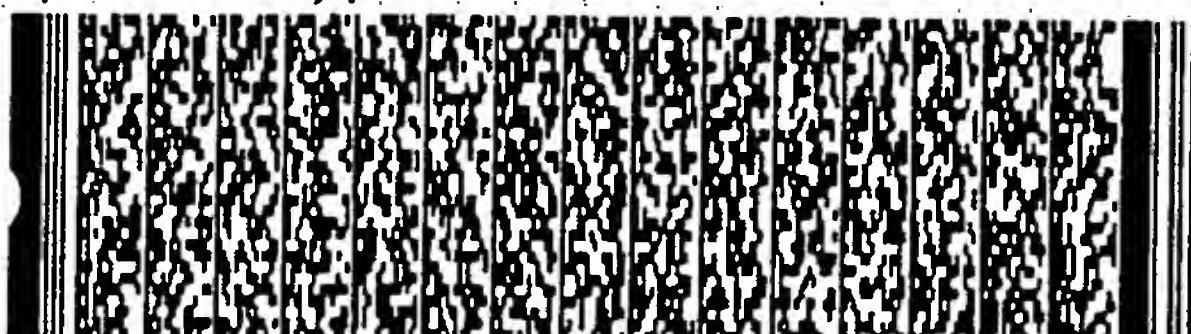
第 12/18 頁



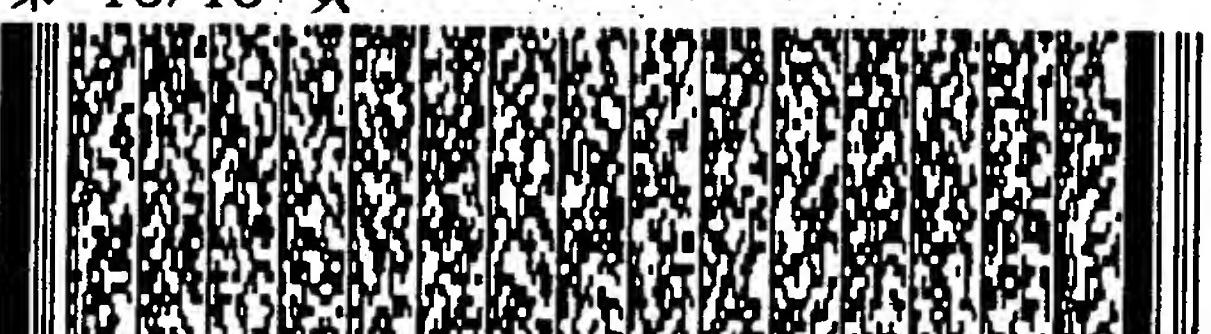
第 12/18 頁



第 13/18 頁



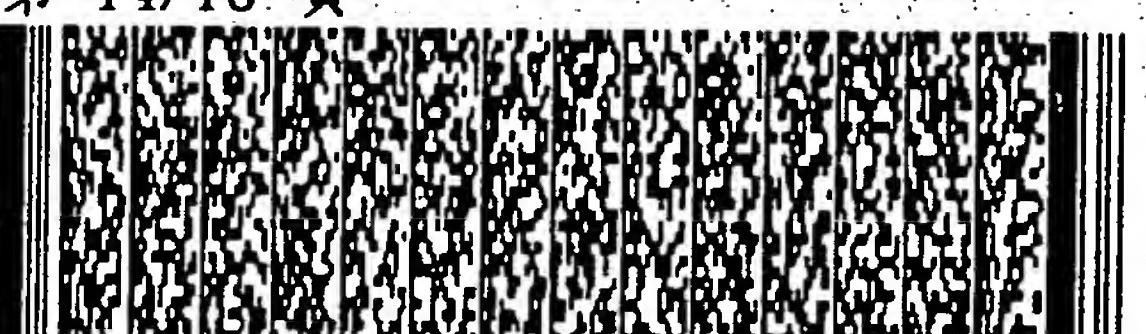
第 13/18 頁



第 14/18 頁



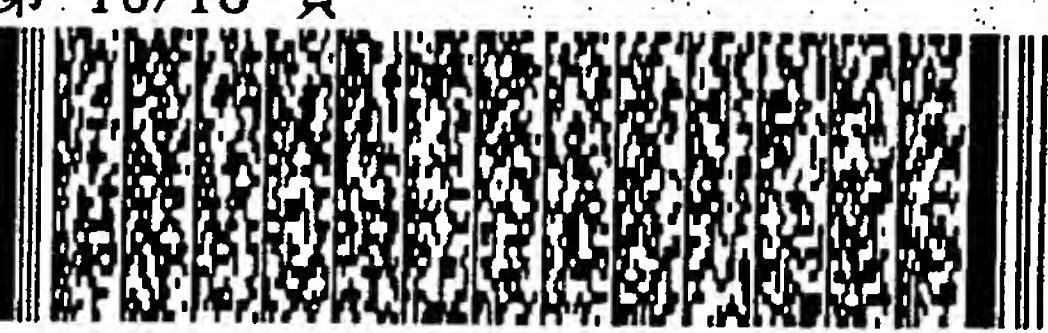
第 14/18 頁



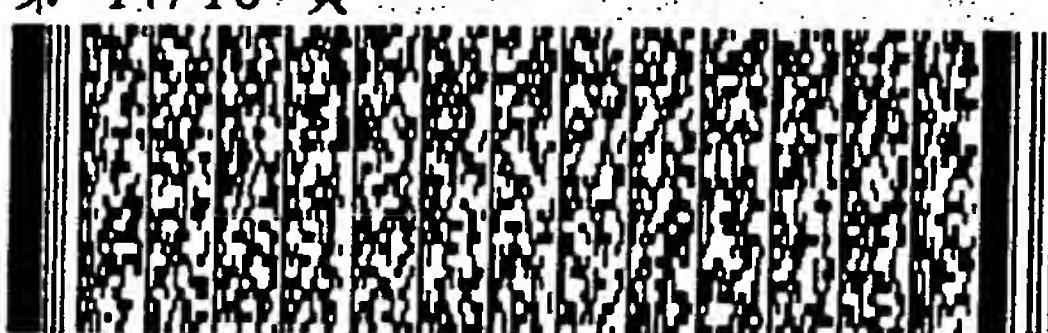
第 15/18 頁



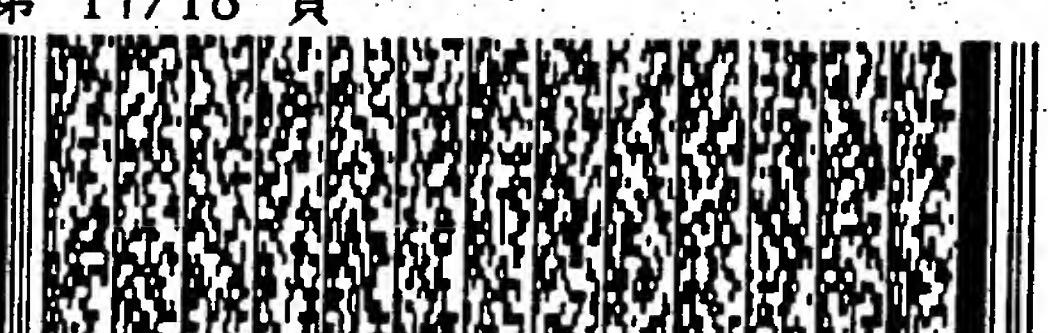
第 16/18 頁



第 17/18 頁



第 17/18 頁



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